

Materials List for:

Automated, Quantitative Cognitive/Behavioral Screening of Mice: For Genetics, Pharmacology, Animal Cognition and Undergraduate Instruction

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Materials

Name	Company	Catalog Number	Comments
SmartCtrl Connection Panel	Med Associates	SG-716B (115)	control panel for inputs/outputs
SmartCtrl Interface Module	Med Associates	DIG-716B (114)	smart card for each chamber
Universal Cable	Med Associates	SG-210CB (115)	cable from smart card to control panel
Tabletop Interface Cabinet	Med Associates	SG-6080C (109)	cabinet to hold smart cards
Rack Mount Power Supply	Med Associates	SG-500 (112)	28 volt power
Wide Mouse Test Chamber	Med Associates	ENV-307W (31)	test chamber
Filler Panel Package	Med Associates	ENV-307W-FP (32)	various-size panels for test chamber
Wide Mouse Modular Grid Floor	Med Associates	ENV-307W-GF (31)	test chamber floor grid
Head Entry Detector	Med Associates	ENV-303HDW (62)	head entry/pellet entry into hopper
Pellet Dispenser	Med Associates	ENV-203-20 (73)	feeder
Pellet Receptacle	Med Associates	ENV-303W (61)	hopper
Pellet Receptacle Light	Med Associates	ENV-303RL (62)	hopper light
House Light	Med Associates	ENV-315W (43)	house light
IR Controller	Med Associates	ENV-253B (77)	entry detector for tube between nest and test
Fan	Med Associates	ENV-025F28 (42)	exhaust fan for each chamber
Polypropylene Nest Tub			nest box
Acrylic Connection Tube			connection between nest and test areas
Steel Cabinet			cabinet to hold test chambers (78"H, 48"W, 24"D)
Windows computer			running MedPC experiment-control software
Server			running Matlab, linked to exper-control computer by LAN
Software			
MedPC software	Med Associates		proprietary process-control programming language
Matlab w Statistics Toolbox	Matlab		proprietary data analysis and graphing programing system
TSystem		in Supplementary Material w updates from senior author	Open-source Matlab Toolbox

<p>Note: This is the equipment needed for one cabinet, containing 8 test environments. Hardware must be replicated for each such cabinet. However one computer can control 2 cabinets (16 test environments)</p>			
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